



Gulf of Mexico Harmful Algal Bloom Bulletin

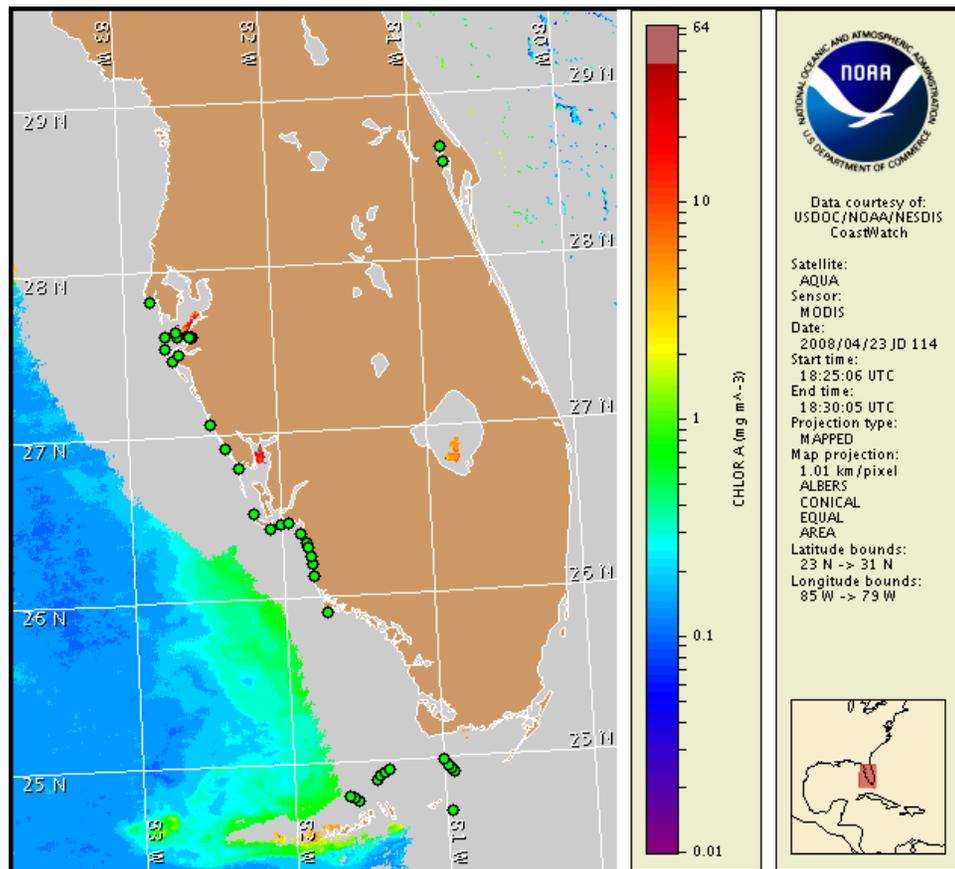
Region: South Florida

28 April 2008

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 21, 2008



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from April 18 to 24 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

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1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.

Conditions Report

A harmful algal bloom was identified in northern Monroe County through April 8. No reports of impacts in association with this bloom have been received. No impacts are expected alongshore southwest Florida today through Thursday, May 5.

Analysis

No *Karenia brevis* concentrations were reported last week in southwest Florida between Pinellas and Collier Counties and offshore of the Florida Keys. No reports of impacts have been received over the past several days.

Chlorophyll levels remain elevated alongshore Collier and northern Monroe Counties (MODIS, April 26), with a large elevated chlorophyll feature continuously visible offshore Monroe County, extending from 25°29'57"N 81°23'26"W to 25°18'40"N 81°37'14"W. This feature appears to have moved southward since last reported on 4/21. Continued southerly transport of the feature is possible Tuesday and Wednesday. Due to technical difficulties, recent MODIS imagery is not available for display on this bulletin.

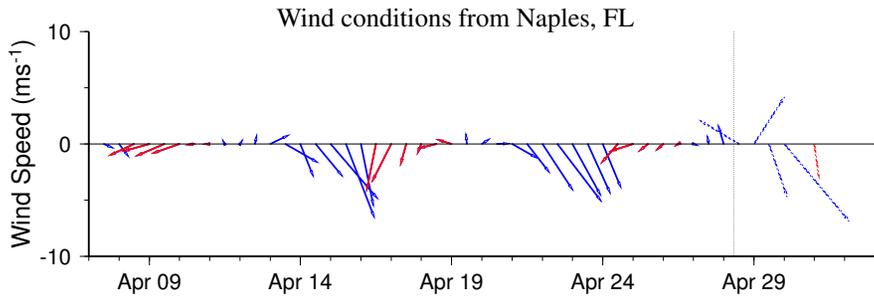
A large elevated chlorophyll feature remains offshore of Pinellas, Pasco, Hernando, and Citrus Counties. MODIS imagery as of April 27 indicated that the feature had a central location of 28°11'57"N, 83°39'19"W, with chlorophyll concentrations as high as 4 µg/L. Slight southerly transport of this feature is possible Tuesday and Wednesday.

Please note that due to past technical difficulties, SeaWiFS imagery is temporarily unavailable for display on this bulletin; MODIS imagery is shown on pages 1 and 3 of this bulletin.

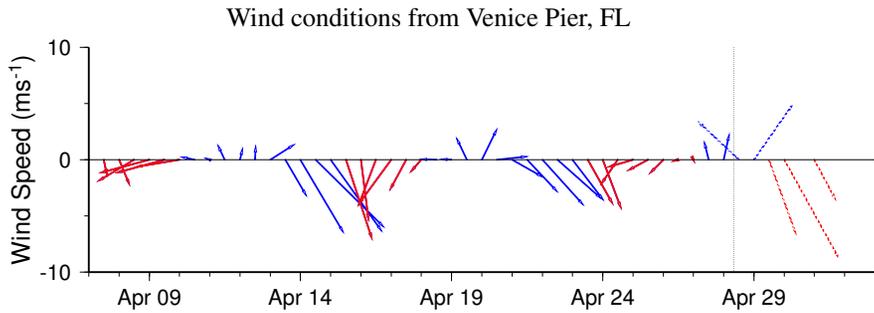
~Keller, Fisher

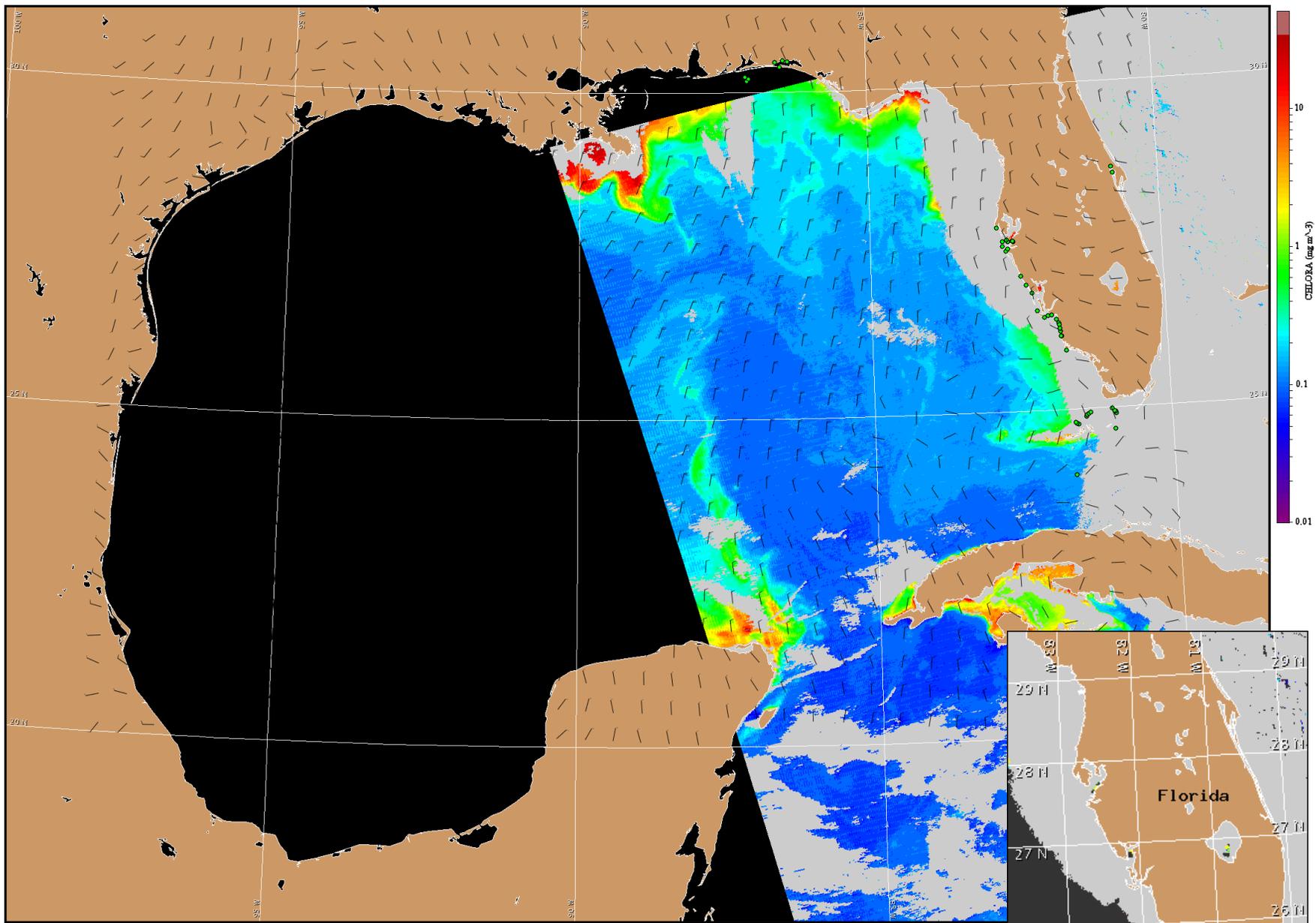
Wind Analysis

SW Florida: Southerly winds today, with southwesterly winds tonight (10-15 kn; 5-8 m/s). Northerly winds on Tuesday, becoming northwesterly in the afternoon (5-15 kn; 5-8 m/s). Northeasterly winds on Wednesday (10-15 kn; 5-8 m/s). Easterly winds on Thursday and southeasterly winds on Friday (10-15 kn; 5-8 m/s).



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.





Satellite chlorophyll image and forecast winds for April 29, 2008 12Z with Cell concentration sampling data from April 18 to 24 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).